FIRELIGHT.

Not summer's noontide glory Infolding mountain hoary. A breadth of woven gold, For moonbeams as they quiver At midnight on the river: Nor startight pure and cold;

Nor glare of lamps revealing The giddy mazes wheeling, Of feet that never tire-Can rival in their splendor That mystic charm and tender, A trembling, fitful fire,

For while the guy light dances Upon the wall, what fancies Come dancing over the soul-Come quicker yet and quicker, The more the bright tongues flicker In lightnings from the coal.

Then palaces are builded, And days unborn are gilded With visionary gleam: 'Tis then the memory passes Beneath the churchyard grasses In retrospective dream.

Ah. Firelight, weird, enchanting, Bright hopes and dreams implanting, Most sweet of lights and blest, Beneath thy landiction. Hearts weary with life's friction Can find a moment's rest. -Chambers' Journal

GIGANTIC BEARS.

The Grizzly and the Silver Tip, the Black, the Brown, Etc.

ritories-A Fierce Encounter Where Man and Bear Both Went Over the Precipice.

Mountains and spurs of the great range | ures, and the claws and head preserved | driven the wary beasts to seek more inseldom descends from lofty altitudes, would justly entitle him to the credit accessible cover in the remote north. where they manage year in and year of being the father of the family. out to eke out a subsistence near the As a proof of the wisdom of the old nesota, Idaho, Montana, as well as in man's a fool to go in arter bear alone." | will best illustrate its truthfulness: tomer that he was a hundred years on a run, they could not have reached ago. There are few black bears in their friend in time, and to risk a shot this immediate vicinity, most of them with a rifle would have been just as inhabiting the western slope of the dangerous to the Swede as to the bear. Rocky Mountains and the forests that | Step by step the man was forced back, thence continue to the Pacific Ocean. | until he hung almost upon the edge of

The woods of Oregon and Washing- the precipice. There seemed no hope ton are overrun with black bears. for him unless he could assume the ag-The largest black fellow I ever saw in gressive in turn, and this could not be my life was in the woods of Washing- | done, as the man was doing his utmost, ton Territory, near Mount Rainier, and still the silver tip was getting the The black bears of Montana, as well as better of the light. All at once the desthe cinnamon, as a rule inhabit low perate animal raised his huge paw and places, such as creek and river bottoms, brought it down with a terrific force willow marshes, and timbered spots, upon the head of the man. The scalp but grizzlies and silver tips stick to was torn away by this last stroke and high altitudes, from which even huager | the poor feilow was blinded by his own pressure seldom drives them. Grizzlies blood. Again the bear struck him, are generally credited with highly-culti- and the Swede tottered on the brink vated appetites for carnivorous food. with nothing in reach to lay his hands Camp-fire stories excitedly tell of the on by which he might save himself. bleedthirsty diet these monsters habi- Evidently with the desperation of death | the natives. In addition to the English tually thrive upon, but were all the staring him in the face Franck did the troops we had natives as well. The pink one in a more inviting light. blood-curdling yarns, aired around the only thing possible under the circumcheerful blaze earefully sifted down stances. As he was swaying backward and we had some very lively skirmishes for facts I am afraid that fully ninety and ready to go over he threw from him with them. A friendly Buddhist priest per cent. of the grizzly stories would the useless knife, and, in despair of all informed us one night of the location turn out to be fiction. I do not think hope, madly clutched the beast around of an enemy's camp, and a detachment a crizzly is carnivorous from choice. the neck with both arms. The force of was sent out to capture it. We sur-He seldom descends from his mountain the last onslaught carried the animal rounded them and they tried to fight home to the creeks and rivers in search | too far, for the next moment both the | their way out, and one big fellow came of wild plums and chokeberries (the silver tip and the man, in that awful within three inches of splitting my head Free Press. favorite diet of brown, cinnamon, and embrace of death, went rolling over with his knife. We captured about black bears), but prefers to remain the frightful precipice together and thirty of them. Another time we ataloft and feast upon the stores laid up were dashed into an unrecognizable tacked a little army of them who had for winter use by his industrious mass on the rocks and pines hundreds taken up a position at the summit of a neighbors, the gophers and mountain of feet below. Franck's rifle was found steep hill. They rolled big bowlders squirrels. Pine nuts are plentiful high in a bunch of quaking aspens, broken down upon us, and I barely escaped

overgrown boulders are good enough proved that the seven-footer had for King Bruin while they last. When certainly exhausted his magazine bethe not, berry and plum supply runs fore drawing his knife, and that after The courts have decided that refusing to take short, none of the family hesitate to he had shot all his shells the silver tip fall back upon a diet of pork, beef, had insisted upon fighting at close mutton or venison. A recent report from the Highwoods, in the neighborhood of Arrow and Wolf creeks, says man clubbing his gun when the madthat more bears have been seen this dened beast rushed upon him. It was year than for ten years past, and that late in the fall when the encounter quite a number of cattle have been occurred, probably at a time when the killed by them of late. A few months monster was heavily equipped with fat. ago, at Mullery's ranch, near Gorham, and, of course, the long keen knife a big silver tip came down out of the would have to pass through a thick mountains one night, invaded the hog layer of "blubber" before encounterpasture of that industrious ranchman, ing a vital part .- Fort Keogh (M. T.) and in a very short time laid out no Cor. N. Y. Times. less than thirty fine porkers. The hogs squealed, made a great fuss, of course, and as long as there was a show of resistance the bear never stopped boxing their ears. One blow of his mighty paw was enough to kill a hog, and there is no largest species of the entire deer telling where he would have stopped genus, exceeding in proportions any

had he not been interrupted in this other native ruminant quadruped in pleasant pastime. The grayback of the Rockies is rather vigor, in the best condition, these a different brute from his cousin of the gigantic mammals, it is asserted, have Adirondacks and the Pennsylvania been known to attain the enormous hills. Perhaps the Eastern members | weight of two thousand pounds, and a of this interesting family never weigh reliable gentleman now living in Hartmore than four hundred or five hun- ford, Conn., who has for many seasons dred pounds, but out this way many of stalked this particular game and bagged the grizzlies and silver tips caught quite a number of large specimens, have touched the beam at one thousand says that he killed a ball moose some and twelve hundred pounds and even years since in Nova Scotia that measgreater. Mr. Charles Soper, of Boze- ured seven feet from the top of the man, a thriving city a short distance withers to the sole of the foot, which is west of here, is said to have shot one of considerably taller than the elk or any the largest graybacks ever seen in the other game animal on this continent. West. The hide was something tre-Plenty of Them in the Northwestern Ter. mendous. The beast having been had a vast geographical amplitude, exkilled late in the fall, at a time when tending from the Atlantic to the Pahe was plentifully supplied with "bear's eific entirely across the continent. But grease," it would not be wide of the the expansion of the western settlemark to estimate his weight when alive | ments and the proclivities of the hunt-The big grizzly bears found all at sixteen hundred pounds. Certainly ing population have caused a great through the canons of the Rocky the enormous hide justified these fig- diminution in this species of game and

Yet they are still found in Maine, Minperpetual snow line. An old and ex- hunter's warning about "going in arter | the unpopulated districts of the Canaperienced hunter has said that "any bear alone." the following narrative dian provinces and in British Colum- future, where the mental and the

The bruins of the East and the bruins "A party of gold hunters started out of the West are almost totally different from Deadwood some years ago to animals. The "Ursa Majors" of this prospect the country to the north and latitude are monstrous in size, endowed west of that mining camp. The men told a white traveler some years age with ugly dispositions and prodigious in the party were 'old timers,' with strength, and as for grit, they dispute one or two exceptions, and among the before, when the snow was very deep -and very often successfully, too-the latter was a Swede, full of grit, who and his family suffering for want of sovereignty of the mountains and stood nearly seven feet in his stockings. food, he went out alone upon snowforests with the king of American The Swede, however, whose family shoes to procure meat, and in a short ard. beasts, the mountain lion. Hunters name was Franck, was by no means a time came upon the fresh tracks of disagree upon the point of how many tenderfoot, having dwelt some time in different species of the bear tribe we the Leadville mining camps and boasted three successive days, during which he have in the Northwest. There are at that he had killed 'bar in his day,' and killed every one of them, besides two there are also gray bears, cinnamon mountain, darkness was coming on, this large supply of meat he returned bears, and the Rocky Mountain gray- and prospects of a supperless night were to his people, and taking out a party parallel, and as far east as the main the hopes of securing an elk, deer, or remainder of the winter. divide; the cinnamon is simply a cross | mountain sheep. The foreigner was a between the brown and black bears, good shot with his rifle, had plenty of looking animal, with an uncommonly and the mighty silver tip is neither grit and courage, and his immense raore or less than a mongrel of the strength and powerful physique renbrown and grizzly, partaking strongly dered it extremely improbable that he of the nature of the two, particularly would find his match in the timber of the latter. In fact, I think I am ahead. The hunter disappeared, and justified in asserting that all the mem- the others toiled on behind, climbing bers of the species intermarry, and the steep ascent wearily and footsore. that the silver tip is the king of the At one place the road wound around a family. This big fellow, springing steep precipice, the sheer descent of the from the grizzly and the brown, com- cut basaltic walls on the left being deciduous shrubs and trees, which conbines all the ferocity and tough strength something like a thousand feet. Far of the former with the agility and stub- below the tops of giant pines could be bornness of the latter, each distinctive discerned, but in the awful depth they trait being more prominent in him, and appeared like stunted shrubs and possessed to a greater degree than by bushes. Near the summit and to the the very ammais from which he bor- right the free land broadened or rows them. The silver tip is unques- widened out, and this was covered tionably the ruler of the family, by with a dense growth of willows and reason of his great size and belligerent stunted pines, from which proceeded disposition. Lewis and Clarke, in their the most awful gramblings and howls marrative of their journey through this | imaginable. Just as the party appeared region nearly one hundred years ago, on the top all at once out from the speak of meeting not only brown and stubble came retreating the big Swede, black bears, but also numerous white followed by an enormous silver tip, bears, who made it perilous traveling who was driving him slowly backward at times for various members of that toward the edge of the precipice. The bold pioneer party. There are no man was bleeding badly, nearly all of abundant. white bears in Montana, Dakota, Idaho, one side of his face being torn away. or the bordering possessions of the Can- the result of a wicked blow from the adian Northwest. Probably the albi- huge paw of the vicious monster. The forests of Lake Huron. nos referred to were cinnamon bears, bear, on the other hand, was quite as out of a winter's sleep, take upon head was a mass of gore, the lower jaw strait. - Chicago News. themselves a dirty, yellowish-brown was simply hanging by a few shreds, color, which, at a distance and in a and one of his hind legs was snow-covered country, might readily broken. The Swede was backing slowbe mistaken for white bears whose coat ly, holding in his right hand a large of fur badly needed a bath. In one hunting knife, which every second he place, after coming upon a so-called would plange to the hilt in the shoulder white bear, the journal describes him of his shaggy foe. At one thrust of the as possessing small black eyes (almost | Swede the bear caught him fairly with like jet beads), a hide of bright yellow- a return whack of his monstrous paw ish brown, the front of the fore-legs that must have broken the man's arm, near the feet being quite black, and for he quickly transferred the blade to the animal itself of a ferocious and his left hand, and gave back blow for warlike nature. This description of blow as best he could. The denouethe white bear of 1804-5 tallies with ment came so suddenly that the horrorthe cinnamon bear of 1887, which stricken comrades could render no posmakes him about the same ugly cus- sible assistance. Even had they started

lazy, but often a hard goer. He needs Eugene L. Didier, in Epoch. constant care and watchfulness on the driver's part. A buver of equine flesh should be able to detect the good and knowledge is only acquired by a careful study of the various parts of horse How do you like it?" physiognomy .- Farmer's Advocate. Soldiering in Burmah. Shortly after my enlistment our regiment was ordered to Burmah to subdue up, and then the grubs and worms short off at the stock. There were no one that must have weighed about ten found beneath old stones and moss- cartridges in the chamber, which tons. - Philadelphia Record.

CARDINAL MANNING. The Favorable Impression He Made on an American Visitor.

quarters, which accounts for the broken

stock and verifies the probability of the

THE AMERICAN MOOSE.

Something About the Largest Representa-

As is well-known, the moose is the

Fifty years ago the range of the moose

An old Chippewa guide, "Pe-to-Wan-

Quad," who had hunted in the vicinity

of Lake Huron ever since his boyhood,

that during a severe winter many years

peculiar head and nose, ending in a

flo," which they use in collecting food,

from the lower extremity of the muffle,

thus adapting it to their method of

Moose are quite abundant upon the

tion by Whimpon in 1867 shows. Be-

The appellation of "moose" is prob-

ably derived from an aboriginal source,

Points in a Good Horse.

A horse's head indicates his char-

acter very much as a man's does. Vice

size of the eye, the thinness of the

skin, making the face bony, the large,

open, thin-edged nostril, the fine ear,

and the thin, fine mane and foretop,

are indicative of high breeding, and

accompany a high-strung, nervous or-

tion of the Deer Family.

Not much of the pomp and splendor of the Roman purple here, I thought, as I stood at the entrance of a large but severely plain house, of no particular style of architecture, within a short walk of the Houses of Parliament. Yet this was the episcopal residencethe titular palace of the Cardinal Archbishop of Westminster. I had some trouble in finding the place. A policeman who was sunning himself around the next corner said he had never tographic Association of London. The heard of Cardinal Manging.

The door of the mansion was opened by a middle-aged woman, very plainly dressed. I entered a wide hall which was almost destitute of furniture. The woman who had admitted me opened a door to the right, and I found myself in large well-lighted library, the sides of which were filled with book-eases reaching from the floor to the ceiling, and containing about 10,000 volumes America, and when in full growth and and history predominated.

The furniture of the Cardinal's library was of the plainest kind, consist- stroyed. ing of an oblong table, half a dozen leather seat chairs, and a cheap carpet of a neutral tint. On the walls were several pictures, among which I noticed portraits of Pius IX., Leo XIII.,

While I was turning over the pages of a work on the Roman antiquities the library door opened, and a tall, slender. delicate figure glided into the room. The small red cap told me I was in the presence of the Cardinal Archbishop of Westminister, Henry Edward Manning. His simple, gentle manners made me feel at home at once. His voice was ingularly sweet and winning, but exquisitely modulated.

I found the Cardinal deeply interested in the United States. Like many of bis intelligent countrymens he looks upon America as the country of the physical development of mankind are destined to attain their perfection. The Cardinal is greatly interested in the temperance cause, and attributes most of the misery of the poorer classes to the vice of intemperance. The Irishman drinks from joviality, the Englishman from bratality, and it is easier to reform an Irish than an Eaglish drunk-

It is not generally known that Cardinal Manning was a married man. seven moose, which he followed for While an Arch-deacon in the Church of England he married Miss Serjeant, least three distinct types of the family was afraid of 'no four-footed critier black bears that attempted to join him whose two sisters married Bishop Wilin Montana, namely, the grizzly, that reamed the mountains.' The in the chase toward the last of it, berforce and Henry Wilberforce, his brown and black bear. Beside these, party of twelve were climbing a steep After his signal achievment in securing brother. Mrs. Manning lived only a commerce. The flow takes place durfew months after her marriage, and her death filled the sensitive soul of her | weather is the most favorable period. back. The true gray is seldom, if ever, in view, when the seven-foot Scandina- with sleds hauled it all home, and it husband with a deep and lasting sorseen now as high as the forty-fifth vian volunteered to push on ahead in sufficed for their subsistence during the row, and turned him more and more to muscular, prehensible lip termed "mufand this appendage, when cooked, is regarded by hunters as a delicious bon morceau. The mouth is set well back less by his scholarship than by the polish of his manners. He became a fellow of Merton College at the early age of twenty-four, and Archdeacon of Chichester before he was thirty-three. stitute their staple forage the year At that age the future Cardinal Archbishop seemed very far from the Catholic Church, for just at that time he Yukon river, toward its sources in preached so violent a tirade against Alaska, as an exploration of that sec-"Popery" that Dr. Newman, who was then preparing to join the church, detween latitudes 65 and 66 degrees north clined to see him the next time he and longitude 146 degrees, he says: called. While holding orders in the hollow-iron window frames and doors, "This part of the river abounds in Church of England. Dr. Manning which are said to be light and strong maintained the spiritual grace of bap- and of far greater durability than could tism, and when this doctrine was ever be assumed of wood. There is no denied by Mr. Gorham, and the view reason, too, it is thought, why corru- farming to apply this on land to be put as this identical synonym still obtains of the latter was pronounced tenable gated barrels of iron or steel should among the Chippewas on the northern by the Church of England, Manning | not be used for liquors, since milk and borders, where those animals are most "felt the very ground on which he stood cut from under him," and shak-In 1843 moose and elk were occaing from his feet the dust of the church sionally met with in the extensive of his ancestors entered the Church of there is still much prejudice against find it to their advantage to follow this Rome. His rise was rapid. He founded | the metal being used in the manufac-Moose have been killed near the the order of Oblates of St. Charles of ture of furniture. who, early in the spring after coming badly wounded as his antagonist. His Pacific coast a little south of Behring Borromeo, was raised to provost of Westminister, and became a great favorite of Cardinal Wiseman, who recommended him to the Holy See as worthy of the honorary title of Monsignor. When Wiseman died, in 1865, Pope Pius IX. raised Monsignor Manis shown in the eye and mouth; intellining to the vacant See of Westminster, gence in the eye and in the pose, in the mobile nostril and active ear. The

and in 1875 he was created a Cardinal. Cardinal Manning is a frequent guest at luxurious banquets, but the ascetie churchman in the midst of such feasts makes his dinner off a baked potato, a piece of beef, and a glass of water. The Cardinal is an early riser, getting | dealer. ganization, which, with good limbs and up at five in summer and six in winter. muscular power, insures a considerable After half an hour's meditation, he degree of speed in the animals. The says mass in his private chapel, and stupidly lazy horse that drivers call a then passes thirty minutes in thanks-"lunkhead" has a dull eye, usually a giving. He breakfasts at seven in sumnarrow head and contracted poll. He mer and eight in winter, and then Do you follow?" is always a blunderer, forgets himself passes an hour or two over his corresand stumbles on smooth ground, get pondence, and devotes the rest of the himself and his owner into difficulty, morning to literary work, and to matealks himself, is sometimes positively ters belonging to his archdiocese .--

A Red Top-Knot.

Two ladies were purchasing mufflers bad qualities of the animal he con- at the counter of a leading clothing templates purchasing. This valuable store. Said one, turning to her friend: "I am buying this for Albert D---.

> friend, admiringly, "but it is pink and Albert D-- has red hair! You must get a blue one." "We are out of blue mufilers," said

"Very handsome," returned the

said the friend, decidedly.

"He-he-might dye his hair?" sugthe clerk, facetionsly. "That's so," said the customer, with a sigh of relief, "I'll take it. I'm not responsible for his hair any way," she

-Never set the lamp upon a red table-cover; if you can not find time to | plaining to the officer: make a green lamp-mat, put a piece of green card-board under the lamp, and you will find the reflection upon your than that from the red cover.

SCIENCE AND INDUSTRY.

rie light with considerable success. -Dr. Schenerlin, of Berlin, has incenlated dogs with the newly discovered bacillus of cancer. So far no cancer

symptoms have been developed. -An ether-tight joint can be made with a screw-cap by just rubbing common bar soap in the thread. The ether will not penetrate through the scap.

.- The first recorded photograph of a rainbow has been exhibited to the Phoarch has the appearance of something solid-like an arch of wood.

-It is estimated that pin factories in New England turn out 10,800,000,000 pins yearly and that other factories in the States bring the number up to 18,-000,000,000. This is equal to about one pin a day for every inhabitant of the United States.

-A physician recommends that all the wood used in the interior construcof works in every department of litera- tion of houses and all the plain surfaces ture, although theology, philosophy of plaster should be thoroughly oiled or varnished so that the power of absorption of foul air and gases may be de-

the past few years. This weed is even cold. Cardinal Wiseman and King Edward of textile fabrics. In Dresden a thread in a large pan of water, and unless half pounds.

> E. P. Thwing stated that Americans results, as it takes less time and water Capital, \$75,000. Surplus, \$15,000. are more susceptible to the influence of than in the old way, and it is so much alcohol than Englishmen, and that they easier to rub them clean. are more affected by tobacco than the . The bones of a well-bred, well-fed Hollanders, Turks or Chinese. This he hog are said to present only about onesupposes to be due to an increased sen- (wentieth part of his gross weight. An sitiveness of the nervous system, in- animal of this nature must necessarily duced by the high-pressure life of this carry a great deal of fat, but the impor-

Savagery of Boyhood" has become a self-evident to any thoughtful person; subject for scientific investigation, hence, inasmuch as the natural tenden-There seems to be a division of opinion | ev of the hog is to fat, feeders should on the subject. Some hold that a boy make it a point to counteract the evil is naturally and inherently a savage, by using the most nutritious feed to while others contend that his savagery | the exclusion of fat-forming food is more owing to false education and the evil example of adults than to his own inborn nature. We are inclined to the opinion that each of these theories has some truth in it.

-Gum tragacanth is collected from plants in Asia Minor, the greater part being shipped from Smyrna. Formerly only what exided spontaneously was gathered, but now the flow of the gum is aided and induced by incisions near the root, and the product is the fine, white, flaky variety, so much valued in

-Gastro-intestinal catarrh, with a disordered condition of the nervous a life of entire soirituality. Cardinal | system and considerable depression, is Manning was born in 1809, the same the usual result following the ingestion year that witnessed the birth of Alfred of poisonous fungi. In treating these Tennyson. His father was a member cases the stomach and bowels must be of Parliament and Governor of the thoroughly emptied, and the promi-Bank of England. Young Manning, nent symptons are to be relieved acafter a preparatory education at Har- cording as they occur. After free row, entered Balliol College, Oxford, vomiting and purgation have been inwhere he disfinguished himself no duced, rest in bed, with stimulants and warmth, are beneficial.

-It appears that special attention is being paid in France and England to a more general substitution of iron and steel for wood, wherever practicable, in manufactured articles, such, for instance, as building materials, boxes and packing cases, barrels or casks, carriages or carts, and other vehicles, furniture, feneing, railway work, sheds, signal boxes, telegraph poles, etc. In France there have recently come in use preserved fruits and other articles are kept in cans. Steel is finding much favor among carriage builders, but

THE PATENT FIEND.

He Invents a Safety Shoe Which Lands Him in a Safe Resort.

"Want to make \$50,000 this winter?" queried a hawk-eyed man with a lapshoulder to a shoe-dealer on Michigan avenue vesterday. "Of course."

"Then buy my patent." He unrolled a package and brought | it is a slow process. My estimate is to light a shoe, a tin funnel and a quart | for 25 two horse wagon loads per acre.

"It is Bronson's Patent Safety Shoe. Here's the idea: In winter our side- a load or \$7.50 for 25 loads. Some of walks are dangerous from ice. By it has to be hauled a half mile, and sprinkling ashes on ice you produce

"But--?"

you walk it flips out in advance of best commercial fertilizers. That is you." "The idea!" "Yes, I worked twenty-two years on as much grass if it is left for a meadow. Corns,

the idea. The funnel fits into the heel of the shoe, and is used to load up with." "But the ashes?"

a pail of them. When the shoe is spread it upon the sod at the rate of 29 empty you whistle and he loads it up to 30 tons per acre. I plow this sod 5 the obliging clerk, as he placed the again. There's nothing like it. I can inches deep for corn or potatoes. By walk twenty miles a day over a perfect | means of shallow plowing and good "Red and pink can not go together," glare of ice. Will you give me an cultivation I get the full benefit of the order?"

"No, sir. It's the most ridiculous thing I ever heard of."

"It is, ch! You'll see whether it is or not before the winter is over! I'll sell enough to buy you out and throw added, as she paid the bill .- Detroit your stock into the river!"

An hour later he was arrested for being drunk and hilarious, and as he went down in the wagon he was ex-

"You puz on 'er shoe, you know. an' you puz in 'er ashes, you know, an' you walk on 'erice an' 'er patrol wagon work much more agreeable to the eyes comes 'long an' gives you sleigh-ride." -Detroit Free Press.

FARM AND FIRESIDE.

-Make a little land rich, and there -Submarine divers now use the elecwill be no need to scratch over a large farm. -The question is not what could be

done if we had certain other things, but what can we do to make the most of what we have. -A sheep well fed and protected

during the winter will yield in the spring two pounds more of wool than one that has been half starved. - When butter is gathered in the

churn in granular form, it is never overchurned. Pounding it after it is in a lump or large mass is what overchurns it.

-Creamed Apples:-Pare your fruit and either scald or bake it until sufficiently soft to pulp it through a colander; sweeten to taste, fill your glasses three parts full with it, then plentifully sprinkle in some powdered cianamon, put a good layer of rich whipped cream on the top and sift white sugar over it.

-A little meal stirred into a pail of water gives it a relishable flavor, and induces a cow to drink more, besides affording some additional nourishment. If the temperature of the water is first raised to seventy or eighty degrees, it -The nettle is among the substances as all the better, since the cow will which science has put to use during drink more warm water than she will

being cultivated in Germany, its fiber -To prepare zante currants for cake. having proven valuable for a variety put them in a colander, set the colander is produced from it so fine that a length | there are stones in, the sand and stems of sixty miles weighs only two and a will all settle in the pan. If you wash the currants thoroughly in this -At a late meeting in London, Dr. way, you will be surprised at the

tance of making it well muscled to -What has been designated as "The keep it from complete degeneracy is

ABOUT MANURING.

The Use of Commercial Fertilizers and the Plowing Under of Clover.

In opening this article I submit these general propositions: First, to grow a crop of any kind profitably it is necessary to have sufficient plant food in the soil in an available form to produce a maximum erop. Second, this may be attained by the application of manure or commercial fertilizers, or, on soils which have plant food in an unavailable form in the subsoil, claver plowed ing the night, and the hot and dry down will have the same effect. Clover am not of the opinion, however, that it adds any fertilizing material to the soil, but renders available that which is in the soil, and pumps up the plant food in the subsoils. I am in favor of making, saving and applying all the manure that can be made upon the farm, and believe in sowing clover upon all tillable land where it is a bene-

> I am in favor of "green manuring" so far as it can be practiced advantageously. The trouble with barnyard manure is that there is never enough. The trouble with clover and green manure is, that while they are good so far as they go, they do not go far enough on naturally thin soils to amount to much in the way of fertilizing the soil for a crop without the previous application of manure or commercial fertilizers. I think, therefore, that commercial fertilizers have come to be a necessity in this section of country, especially in the growing of wheat, oats and grass. I believe in carefully husbanding all the manure we can make. I also believe it is economical and good in corn, potatoes and other crops that are to be planted in spring, and use commercial fertilizers on wheat and oats. Those who have a soil on which fertilizers can be used with success will course. Of course every farmer must be his own judge, according to location, soil, etc., but I speak of farmers situated similarly to those in this section of country. We are distant from any large city and must therefore depend on general farming. I submit some figures to show the correctness of posi-

The expense of hauling and spread-

ing barnyard manure is a big thing.

Besides in the busy part of the season

I do not know what it costs others, but "What on earth is it?" asked the I have carefully estimated the time for team and hands at different times and on an average it costs in labor 30 cents some, of course, but a short distance. decomposition and render travel safe. Four hundred pounds of best fertilizers at \$1.70 per 100 lbs., cost \$6.80; hanling it 5 ets. per 100 lbs., is 2) cents; "Of course you don't, but I'll ex- applying it at 50 cents per aere is 50 Boistica, plain. This is a double-soled shoe. ceats; making a total of \$7.50. In Lumbago, There is a space between the two soles, other words it costs as much to apply Rheumatism. and the toe and heel ends are open. the manure after it is made as it does Burns, You fill this space with ashes and as to buy, haul and apply 400 lbs. of the not all. The fertilizer will produce double the amount of wheat, and just | Bunions, My plan is to haul out the manure directly from the bara (without composting) to the field on which I expect foris. One of the reasons for the great popularity of to plant corn or potatoes, during the "O, you hire a boy to follow you with fall, winter and early spring, and manure. I think it a good plan to follow corn with oats and apply from 200 pounds to 300 pounds of a quick-acting standard fertilizer. Follow the oats with wheat, with 300 to 400 pounds of standard fertilizer meal, (or meal and superphosphate mixed) and sow to timothy in the fall and clover in the blue and orchard grass with timothy for permanent pasture. Avoid the use of acid fertilizers containing Carolina rock. If the after management of the fields is correct, I think no one will have reason to regret the investment. -J. C. Edgerton, in Ohio Farmer.

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